energenie

GREEN ENERGY FOR OUR PLANET

EG-PMS-LAN PROGRAMMABLE SURGE PROTECTOR

USER MANUAL
HANDBUCH
HANDLEIDING
MANUEL DESCRIPTIF
РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ
КЕРІВНИЦТВО КОРИСТУВАЧА

Programmable surge protector with LAN interface

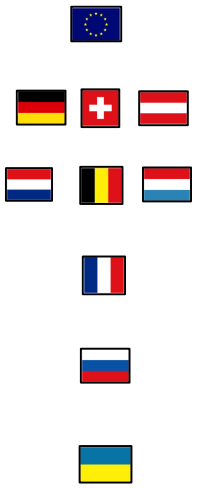
Programmier- und steuerbare Steckdosenleiste mit LAN-Anschluss

Programmeerbare power outlet strip met LAN interface

Boîtier commandé à distance et programmable avec prise LAN

Программируемый фильтр питания с интерфейсом к локальной компьютерной сети

Програмований мережевий фільтр з LAN ынтерфейсом.



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1. Introduction

Congratulations with your purchase of this *Programmable LAN Surge protector*. Your EG-PMS-LAN is an advanced surge protector with power management features. Four sockets are individually manageable via the LAN interface.

The sockets can be switched on/off by a timer schedule, by user or different events. It is also possible to pre-program the unit event timer schedule (hardware schedule) and then disconnect EG-PMS-LAN from LAN and use it elsewhere. The device can be used as an advanced standby-killer.

With your free personal user account at EnerGenie.com you can manage your EG-PMS-LAN via the Internet from all over the world, even from your Smartphone.

1.1. Features

- The main rocker switch enables switching all the sockets on and off
- In addition to it every manageable socket can be switched on and off via the software control window or web browser
- The unit can be pre-programmed via hardware-based schedule. The hardware schedule will work even when the managing computer is switched off

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- The unit will keep performing the programmed hardware time schedule even after EG-PMS-LAN is disconnected from the power for some time
- The manageable sockets can then be switched on and off by the schedule, simple typical applications could be: “switch my peripherals on every working day at 8:50 AM” etc
- The manageable sockets can also be programmed with *Power Manager* software to react whenever a certain event occurs (Windows or other programs start-up/shutdown), simple typical applications could be: “switch my scanner on when I want to scan” or “switch my printer off whenever I exit Windows”
- LAN interface: the unit can be assigned an IP address and/or a network name as a shared LAN resource and can be afterwards accessed and managed from anywhere within the local area network or Internet
- Built-in web-server: EG-PMS-LAN can be managed from any computer running Internet Explorer or any other web browser – therefore a global access is possible
- No external IP-address at home? Create your own user account at EnerGenie.com to manage your EG-PMS-LAN via the Internet with any PC or smartphone. Switching on your coffee machine before setting off for home becomes a reality.
- IP-filter and 64-bit password protected encryption of data guarantee secure access to EG-PMS-LAN

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- Real time *Voltage monitor* provides information about the *actual* status of each manageable socket (on or off). This information can be further utilized in various ways (e.g. to check the proper execution of the switching commands)

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1.2. Specifications

- Input voltage: 220 – 230 VAC, 50 – 60 Hz
- Maximum load: 10 A
- Maximum power consumed by EG-PMS-LAN: 2.5 W
- Built in power supply and battery
- Hardware schedule features:
  - Maximum number of independent hardware schedule events – 16 per socket
  - Time interval between the events – from 1 minute to 180 days
  - Timer accuracy: no more than 2 seconds error per day providing power is always present. Otherwise there can be an additional (up to 2 seconds) error per each power off. There is no accumulation of errors at all if *NTP correction* option is set (see section 5.4 below)
- Working temperature range: from +10 to +40 °C
- Dimensions: 378 x 98 x 55 mm
- Net weight: 1.0 kg

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1.3. Hardware requirements

- Local area network with RJ45 sockets
- Any Internet-enabled computer connected to the local area network
- Computer running Windows® 2000/XP/Vista or Windows 7 is required for using the *Power Manager* software (use of this software is not compulsory)

1.4. Package contents

- EG-PMS-LAN
- User manual and Quick installation guide
- RJ45 cross-over cable (red), RJ45 LAN cable (grey)
- CD with *Power Manager* software for Windows

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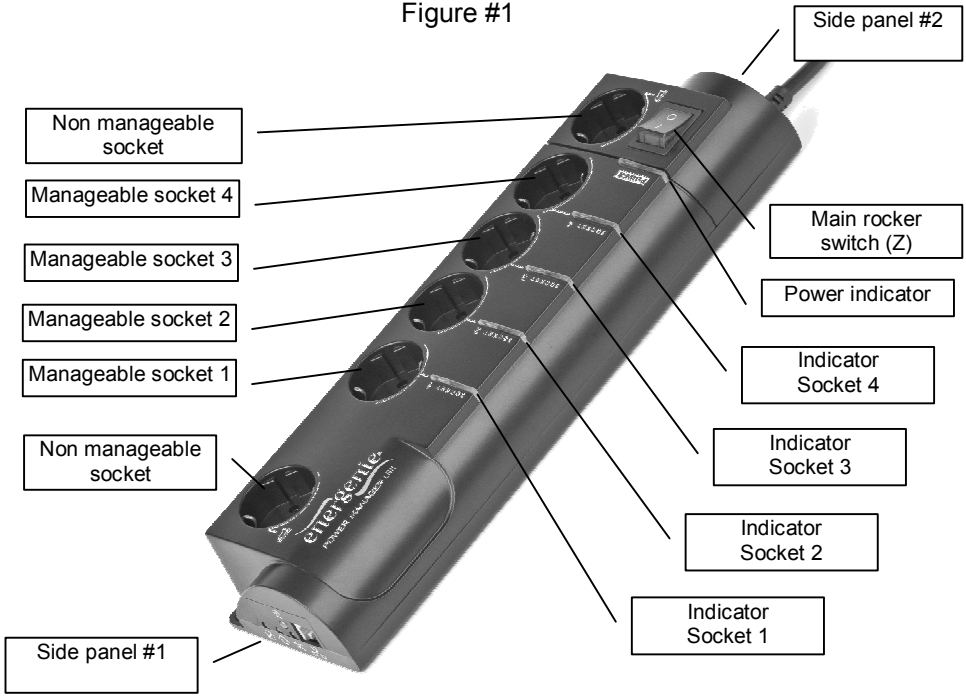
2. Indicators and controls of the EG-PMS-LAN

Figure #1



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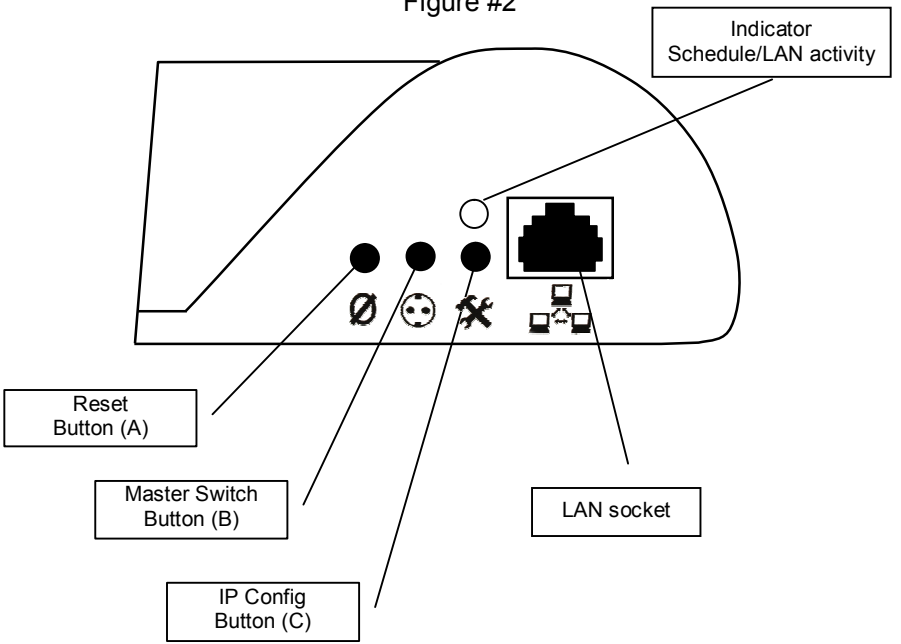
2.1. Side panel #1

Figure #2



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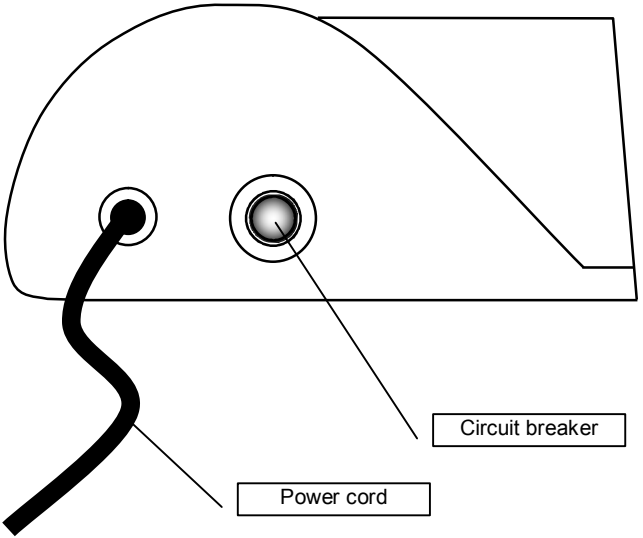
2.2. Side panel #2

Figure #3



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2.3. Indicators

- *Main rocker switch* Z (see Figure #1 above) is lit – this means that EG-PMS-LAN is connected to the power supply and active
- *Power indicator* (see Figure #1 above) is lit – this means that the non-manageable sockets (marked with the sign) are switched on
- The indicator *Socket 1 (2,3,4)* (see Figure #1 above) is lit – this means that this particular socket is switched on
- The indicator *Schedule/LAN activity* (see Figure #2 above) blinks green – this means that there is some LAN activity taking place
- The indicator *Schedule/LAN activity* (see Figure #2 above) blinks red as the reset procedure is being executed
- The indicator *Schedule/LAN activity* (see Figure #2 above) stays red if an active hardware schedule for any socket exists

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3. Installation

- It is strongly recommended to avoid damp or wet places for installation.
- EG-PMS-LAN should be connected to the European AC wall socket of the standard DIN 49 440.

3.1. Getting started

- Connect EG-PMS-LAN to the wall socket first and then to the LAN socket (or your computer LAN card) with the provided patch cord or vice-versa.
- EG-PMS-LAN can now be switched on and off by means of the *Main rocker switch (Z)*.
- Two (the first and the last) sockets of EG-PMS-LAN are marked with the symbol . These two sockets are switched on and off by means of the *Main rocker switch (Z)* and cannot be managed by the computer – so they are called *non-manageable sockets* in this manual.
- If EG-PMS-LAN is switched on then the red indicator *POWER* is lit. In this case both non-manageable sockets are now *live* and connected to the power supply.

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- The sockets: Socket 1, Socket 2, Socket 3 and Socket 4 can be managed or pre-programmed by computer via LAN. They are called *manageable sockets* in this manual.
- The manageable sockets of EG-PMS-LAN can be programmed to be on or off. The current status of each manageable socket is represented by the corresponding indicator which will be lit if socket has power to it.
- If the *Main rocker switch* (Z) (see Figure #1 above) is turned off then the manageable sockets cannot be switched on by either web server, *Power manager* software or the hardware schedule.
- As soon as you turn the *Main rocker switch (Z)* on then the web server, *Power manager* software or the hardware schedule will be able to turn the manageable sockets on and off.
- *Master switch button (B)* (see Figure #2 above) can also switch all the manageable sockets on and off regardless of their current status or schedule that is being executed. To switch them on you should keep the button pressed for 1-2 seconds. To switch them off you should keep the button pressed for more than 3 seconds.
- To protect the connected devices from possible high current and short circuit EG-PMS-LAN is equipped with the automatic circuit breaker.
- **NOTE:** If the total power consumption (or peak power) of the devices, connected to EG-PMS-LAN exceeds 2200 Watts, the circuit breaker may power EG-PMS-LAN off. In this case, please, remove

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the excessive load first and then press the *Circuit breaker* button to restore the power supply (see Figure #3 above).
To be able to use EG-PMS-LAN you will now have to complete its LAN configuration.

3.2. Preparing LAN configuration of EG-PMS-LAN

Before configuring EG-PMS-LAN hardware settings, please, let it obtain its IP address. Follow the steps below:

- Make sure EG-PMS-LAN is connected to the local network with the provided RJ-45 cable (*option A* - recommended)

NOTE: by default the factory setting of EG-PMS-LAN is DHCP enabled. If your LAN has a router with built-in DHCP server (which is very common) then EG-PMS-LAN will automatically get an IP address from the DHCP server. Proceed to section 3.3 below in this case.

NOTE: you may prefer to connect EG-PMS-LAN directly to the managing computer LAN adapter (network card) using the supplied *crossover* RJ-45 cable (*option B*). You might need to use this option if your LAN does not have DHCP server.

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If you choose for *option B* then the following procedure is required to let EG-PMS-LAN obtain a fixed IP address:

- Turn EG-PMS-LAN off (with the *Main rocker switch Z*)
- Press *IP Config (C)* button on the side control panel (see Figure #2 above) with the tip of a pen
- While holding it pressed, turn the *Main rocker switch Z* on and wait for about 3 seconds until you hear the sockets switching twice

The above-mentioned procedure forces EG-PMS-LAN to reset itself to the default settings (see below) ...

- IP: 192.168.0.254
- Subnet mask: 255.255.255.0
- Gateway: 192.168.0.1
- DNS:0.0.0.0
- DHCP: enabled
- IP filtering: disabled
- Power Manager client port: 5000

... EG-PMS-LAN then searches for an IP address from your eventual DHCP server. If no DHCP server is found within 1 minute, EG-PMS-LAN will then automatically revert to the default settings (see above, with IP: 192.168.0.254).

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3.3. Power Manager installation

It is now time to identify which IP address has been obtained by EG-PMS-LAN. We need to carry out the following:

- Insert the Power Manager CD into a PC CD-ROM drive. This PC can be connected either to the same LAN where the device is (if you chose *option A* section 3.2) or directly to the device with the crossover RJ-45 cable (if you chose *option B* section 3.2)
- If for any reason the automatic setup does not work, then open CD-ROM drive in the *My Computer* window and launch SETUP.EXE from the CD
- Follow instructions of the installation software

NOTE: Antivirus or firewall software may block connection to EG-PMS-LAN. Please, configure antivirus/firewall to permit connection to the IP address and port of your EG-PMS-LAN

3.4. IP configuration

The utility *Find EG-PMS-LAN* (see Figure #4 below) will run automatically during the software installation but it can also be started from *Start/All Programs/Gembird/Power Manager*. The IP range where you would like to search for EG-PMS-LAN will be set automatically according to the IP settings of your LAN adapter but can be changed manually in the *Adapter subnet* fields. Now press the *Search* button.

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NOTE: only EG-PMS-LAN within a local subnet can be found. If your computer LAN adapter is not in the (default) subnet of EG-PMS-LAN (as might probably be the case if you chose *option B* section 3.2) you will have to change its IP address manually to be able to find EG-PMS-LAN. For example if you wish to find EG-PMS-LAN (with the default IP 192.168.0.254), the IP address of your computer should be set as 192.168.0.*XXX* (where *XXX* stands for any digit, for example 1) and the subnet mask should be 255.255.255.0.

After the searching the IP addresses of the found EG-PMS-LAN devices will appear in the list box. Select EG-PMS-LAN which you want to access, and press the *Open* button (see Figure #4 below).

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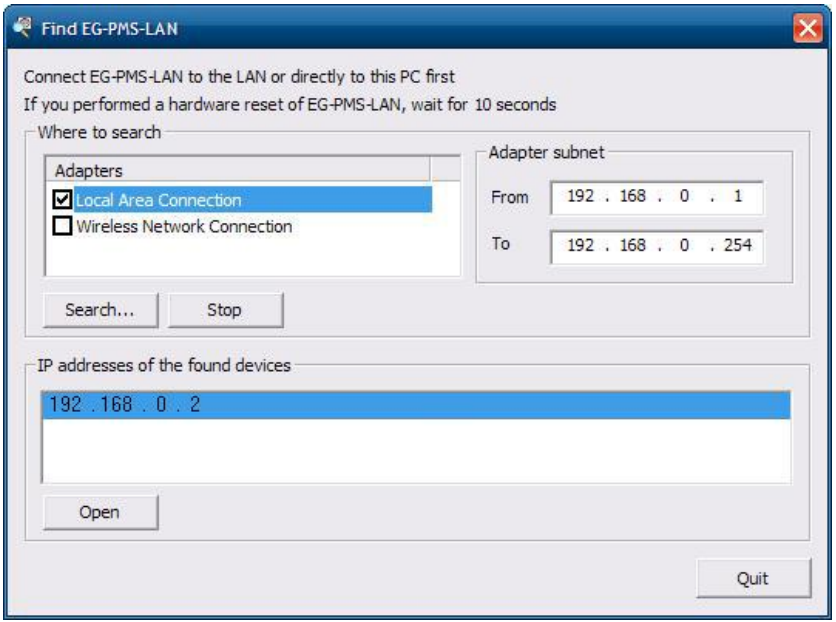
Figure #4


Find EG-PMS-LAN
Connect EG-PMS-LAN to the LAN or directly to this PC first
If you performed a hardware reset of EG-PMS-LAN, wait for 10 seconds
Where to search
Adapters
Local Area Connection
Wireless Network Connection
Adapter subnet
From 192 . 168 . 0 . 1
To 192 . 168 . 0 . 254
Search...
Stop
IP addresses of the found devices
192 . 168 . 0 . 2
Open
Quit

The window of your default internet browser will be then opened to give you access to the built-in web-server. See section 4 below for the further details.

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4. The web server

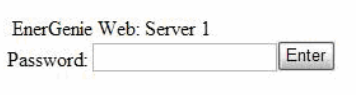
Your EG-PMS-LAN is equipped with a web-server which allows managing the device using any web browser such as Internet Explorer etc.

4.1. Web-server login page

To access the web server of EG-PMS-LAN, just open Internet Explorer (or other browser) and input the IP address of EG-PMS-LAN (for example *http://192.168.1.241*). If you have used *Find EG-PMS-LAN* utility to locate EG-PMS-LAN then you will be taken to this webpage automatically. *Login* page will then be displayed (see Figure #5 below).

NOTE: Java script must be enabled in your Internet Explorer (or another browser) settings. Otherwise, you get an error message: *WARNING! JAVASCRIPT IS DISABLED!*

Figure #5



The default password is *1*. It is recommended to change the password on the *Device settings* page (see section 4.6 below) after the first login.

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After a successful login you will face the *Socket 1 Status* page (see section 4.2 below).

NOTE: There is a possibility that you might then need to open the *LAN settings* page (see section 4.5 below) to complete the IP configuration.

4.2. EnerGenie page

With the help of EnerGenie page (see Figure #6 below) you will be able to see the status of all your four manageable sockets, and to switch the sockets on and off manually. The status of your sockets, as well as the buttons to switch them on/off are located at the top of the page.

NOTE: the names of the sockets can be changed from the default Socket1/Socket2/Socket3/Socket4 to something meaningful on the page *Socket Name Settings* (see section 4.4 below).

The EnerGenie page also allows you to setup access and management (switch on and off) of your EG-PMS-LAN from anywhere via Internet even if it does not have an external IP address. To setup this free service you should follow two simple steps:

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- Register the device. To restrict access to the device via the Internet to the rightful owner only, the device should be registered – e.g. assigned to your account. To register the device, simply push the button *Register* on this page (see Figure #6 below). You will then be redirected to Login page of EnerGenie.com. If you already own an account at EnerGenie.com then just enter your login and password on this page and you are done. Otherwise, use the *Registration* button on the Login page to create a new account. After your successful login (regardless whether you created a new or used an existing account) your EG-PMS-LAN is automatically registered.
- Return back to the EnerGenie page of your EG-PMS-LAN (see Figure #6 below). Push *Activate* button to let the device initiate communication with EnerGenie.com server. The EnerGenie page will then start updating itself until the *Status* becomes *Registered Activated Connected* (see Figure #6 below).

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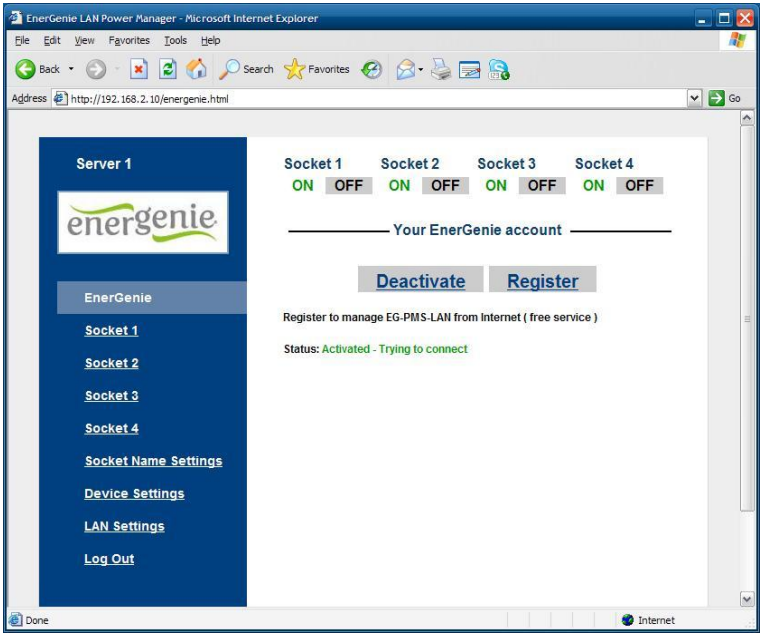
Figure # 6



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After a successful registration and activation the button *Register* will be renamed to *Login* (and will then open the Login page of EnerGenie.com) and the button *Activate* will turn into *Deactivate*. If by any reason you would eventually decide to stop managing your EG-PMS-LAN from Internet use then *Deactivate* button to stop communication of the device with EnerGenie.com server.

If you eventually decide to change registration of your EG-PMS-LAN and assign it to another account, it will be possible via EnerGenie.com website (see section 5 below).

See section 5 below for further details on managing your EG-PMS-LAN via EnerGenie.com website.

4.3. Socket page

There are 4 manageable sockets on EG-PMS-LAN and so there are 4 pages corresponding to them. On each status page you can see the socket status (on or off) and you have the *Switch On* (*Switch Off*) button. Besides you can see the scheduled events for this socket.

The socket number and its eventual name (see section 4.4 below) are shown at the very top of the page (see Figure #7 below).

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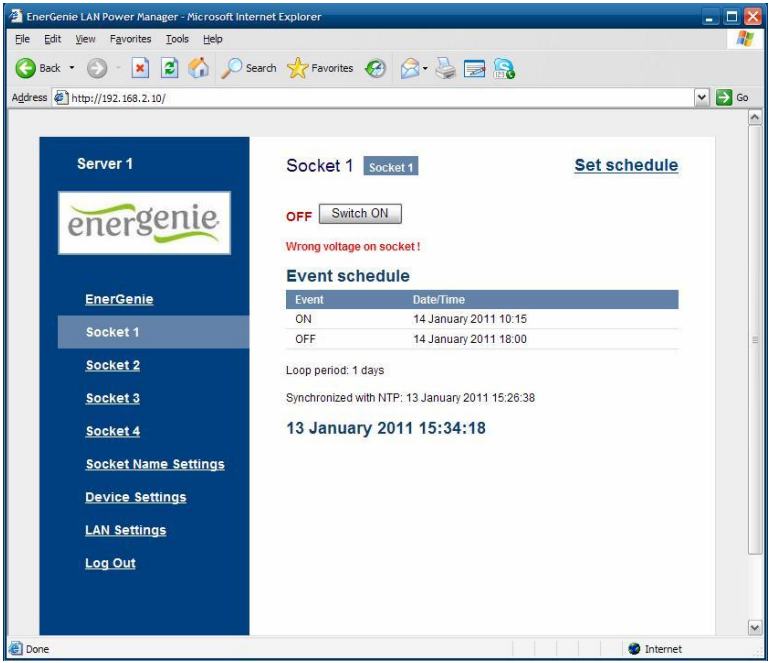
Figure #7



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The socket shown on the Figure #7 is currently off, it will be turned on automatically on the 14th of January at 10:15 and on the same day at 18:00 it will be switched off again. The shown two events will be executed periodically, with a loop period of 1 day (e.g. each day).

Below the page you can see the current time of the web-server and eventual information about the last successful timer synchronization. Automatic timer synchronization is used if *Use NTP for timer correction* option is enabled (see section 4.6 below).

NOTE: If a certain socket has a switching fault, e.g. it should be switched on but the whole device is switched off, or it should be off but it does have voltage, then the warning message *Wrong voltage on socket!* will be shown above the *Event schedule* (see Figure #7 above). This message might also indicate that this socket is defective.

For setting up the socket schedule click *Set schedule* button. You will face then the page shown below (see Figure #8).

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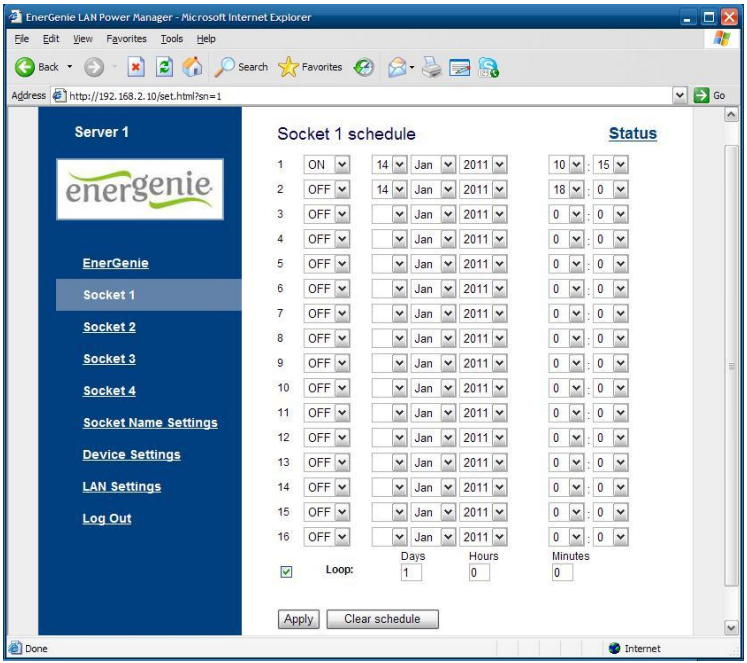
Figure #8


EnerGenie LAN Power Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.2.10/set.html?sn=1
Go
Server 1
energenie
EnerGenie
Socket 1
Socket 2
Socket 3
Socket 4
Socket Name Settings
Device Settings
LAN Settings
Log Out
Socket 1 schedule
Status
1 ON 14 Jan 2011 10 : 15
2 OFF 14 Jan 2011 18 : 0
3 OFF Jan 2011 0 : 0
4 OFF Jan 2011 0 : 0
5 OFF Jan 2011 0 : 0
6 OFF Jan 2011 0 : 0
7 OFF Jan 2011 0 : 0
8 OFF Jan 2011 0 : 0
9 OFF Jan 2011 0 : 0
10 OFF Jan 2011 0 : 0
11 OFF Jan 2011 0 : 0
12 OFF Jan 2011 0 : 0
13 OFF Jan 2011 0 : 0
14 OFF Jan 2011 0 : 0
15 OFF Jan 2011 0 : 0
16 OFF Jan 2011 0 : 0
Days Hours Minutes
Loop: 1 0 0
Apply
Clear schedule
Done
Internet

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Choose the date and time of the scheduled event. If you wish the events to be executed periodically then check the *Loop* option and set the loop period. To commit to your changes press the *Apply* button. To delete the entered schedule press the *Clear schedule* button.

NOTE: The hardware schedule keeps running even when the device is powered off. However it is recommended not to power off the device for extended periods, because the built-in battery has a limited lifespan. If the battery dies the schedule will be completely cleared. The total lifetime of the battery is no less than 2 years if the device is powered off, and no less than 5 years if the device is powered on.

4.4. Socket Name settings page

On the *Socket name settings* page (see Figure #9 below) you can assign an applicable name to your sockets. These names will be shown on *EnerGenie* page (see section 4.2 above) as well as on the *Socket* pages (see section 4.3 above).

NOTE: The socket names can not be longer than 11 characters.

HINT: Call your socket by the device which is attached to this socket. For example call Socket 1 – TV set if your TV is connected to this socket.

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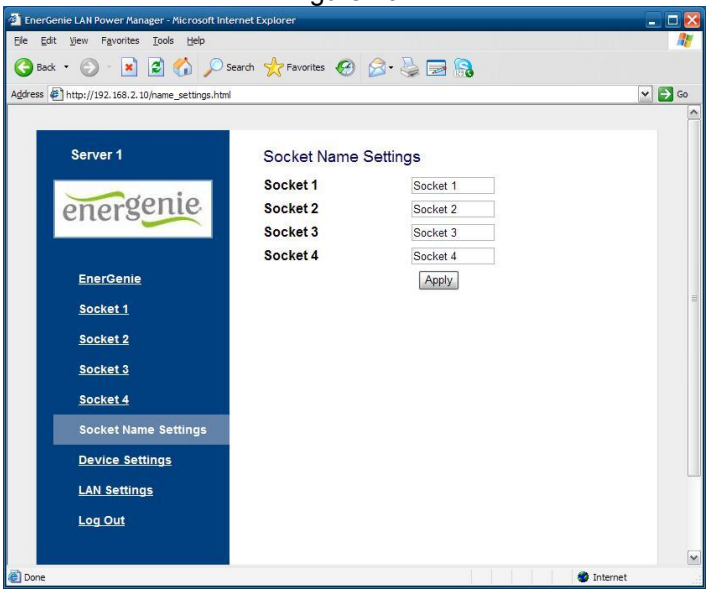
Figure #9



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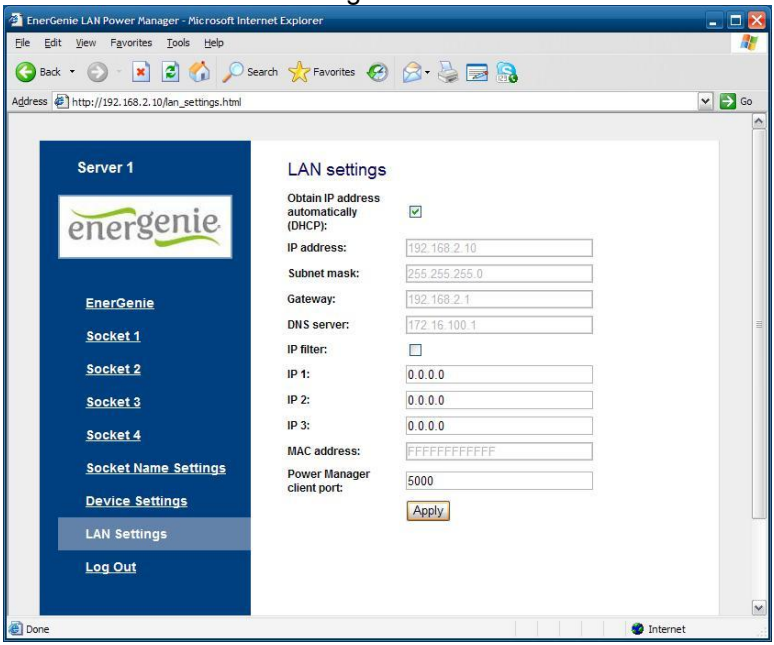
4.5. LAN settings page

Figure #10



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On the *LAN settings* page (see Figure #10 above) you can set up DHCP, IP address, Subnet mask, Gateway, DNS server and IP filter (up to 3 IP addresses can then be enabled for remote access).

The new settings will be applied immediately after you press the *Apply* button.

IP address, Subnet mask, Gateway, DNS server will be used only if the *DHCP* option is disabled.

If you set *DHCP* option it is recommended for your own convenience to set up your DHCP server so that it always provides the same IP address to EG-PMS-LAN. To do that you will need to know the MAC address of EG-PMS-LAN. It can be found on this page or on the bottom sticker of the device. The MAC address is fixed and cannot be changed.

DNS server address is important to be properly set up in case you wish to enable the NTP timer correction option (see section 4.6 below).

IP filter option is needed to prevent unauthorized access to the server. It restricts the web server access from any computer with IP address different from IP1, IP2 and IP3. Make sure that you input IP1, IP2, and IP3 correctly before enabling this option.

Power Manager client port is used for connecting with the Power Manager software, normally it is not needed to change this setting.

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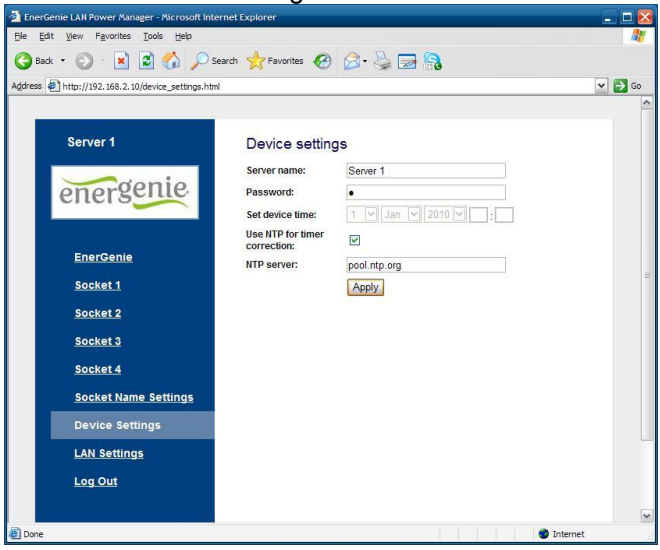
4.6. Device settings page

On the device settings page you can setup name, password and internal time of EG-PMS-LAN (see Figure #11 below).

Figure #11



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To be able to setup the schedule of EG-PMS-LAN you have to first setup its internal clock correctly. Enter the current local time and date.

Alternatively if the option *Use NTP for timer correction* is enabled (by default) then the time will be taken from NTP server. The device will try to connect with the server every 18 hours. The first synchronization would take place in 15 seconds after you press the *Apply* button.

NTP server field should have a valid name of NTP server (by default "pool.ntp.org"). If for any reason the NTP time correction doesn't work you can choose the best NTP server for your country via the website www.pool.ntp.org.

NOTE: for NTP time correction to work properly the device should have access to the Internet and have a proper DNS server setting (see section 4.5 above).

Server name can be convenient to identify the web server if you have more than one EG-PMS-LAN. It is "Server 1" by default.

The password is necessary to access EG-PMS-LAN both from your web browser and the *Power Manager* software (see section 6 below). This password is case-sensitive and can be up to 32 characters long. Alphanumeric characters and spaces are allowed to be entered. Only the first eight characters of the password are used to access the device with the *Power Manager* software. You will need to enter this password in the *Add LAN device* window (see section 7 below).

The *Power Manager* software accesses EG-PMS-LAN via a certain client port (by default 5000). You can change this port to any other except port 80 which is always occupied by the web server.

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Don't forget to push the *Apply* button to save your settings.

4.7. Web-server logout

Having finished working with EG-PMS-LAN, choose *Log Out* in the main menu. If you don't do this, you will be logged automatically after 10 minutes of inactivity. While you are logged to the web server, it can't be accessed from any other computer. If another user tries to access the web server which is running an active session the error message will be shown on the login page: *Somebody with another IP has already logged in. Try again later.* In the meantime the *Power Manager* software (see section 6) can still access the EG-PMS-LAN.

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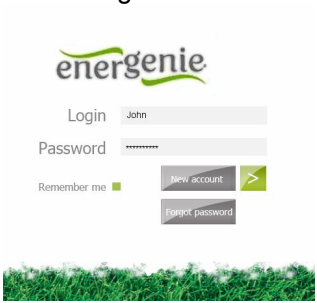
5. EnerGenie.com device interface

With your free personal account at EnerGenie.com website you will be able to access your EG-PMS-LAN from anywhere in the world using any Internet-enabled device (desktop PC, laptop, smartphone etc). See section 4.2 above on how to register your EG-PMS-LAN on the server and setup the connection.

5.1. Logging in

To login into your EnerGenie account just open the webpage www.energenie.com/user in your Internet browser and enter your login and password in the login window (see Figure #12 below).

Figure #12



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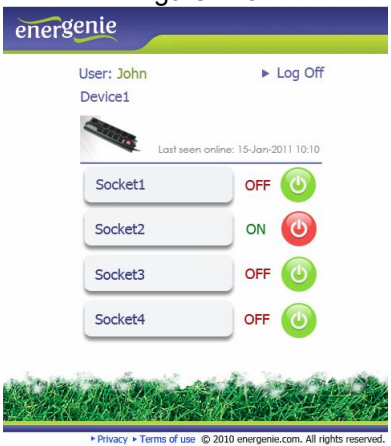
Check *Remember me* checkbox for automatic login in the future (the website will then save a cookie on your computer). If you lost your password, click *Forgot password* button.

5.2. Device management page

After a successful login you will see the list of your registered devices and their corresponding sockets (see Figure # 13 below).

Figure #13



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This page will automatically update itself and will keep showing you the time when your device was last seen online (the latest time when the device communicated with the server) and the status of each socket.

Click your user name to change your account settings.

Click the device to change its name and/or transfer it to another account.

Click the sockets to change their names

Click the On/Off buttons to switch the sockets on or off.

NOTE: the switching command can only be properly executed if the device is switched on, connected to the Internet and activated.

NOTE: the *Last seen online* status information lets you check if the device keeps communicating with the server.

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6. *Power Manager* software

The *Power Manager* software is designed to support not only EG-PMS-LAN but also other power management family products (please visit www.energenie.com) .

6.1. Finding EG-PMS-LAN

To be able to manage preconfigured EG-PMS-LANs, please, do the following:

- Install *Power Manager* software v.4.0.0.0 (or higher) on a PC connected to your local network. A socket icon will then appear in your system tray
- With a right mouse click on the socket icon you will get access to the *Power Manager* main menu. Choose *LAN devices* from the menu (see Figure #14 below)

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Figure #14

The *LAN devices* window (see Figure #15 below) will appear, click *Add* button there to add a new EG-PMS-LAN device.

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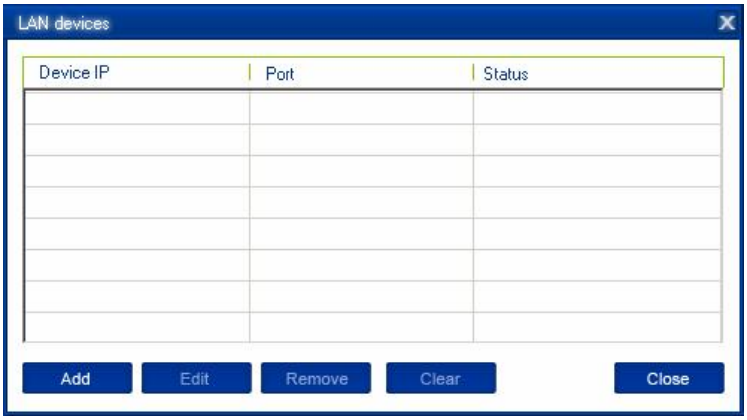
Figure #15



In the *Add LAN device* window (see figure #16 below) please, enter correct IP address, port number (5000 by default) and password (1 by default) as configured on the *Device settings* page (see section 4.6 above) of the web server. To disconnect from the device uncheck the option *Enable*, set this option again to regain the access. Click *OK* button to return to the *LAN devices* window.

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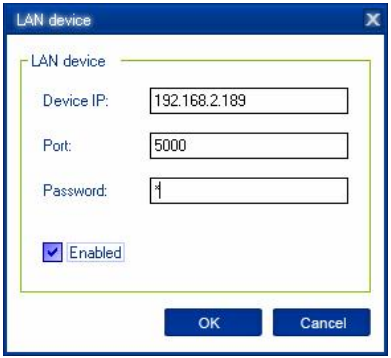
Figure #16



Specified device should then appear with a green square next to it and *Connected* status in the *LAN devices* window (see Figure #17 below).

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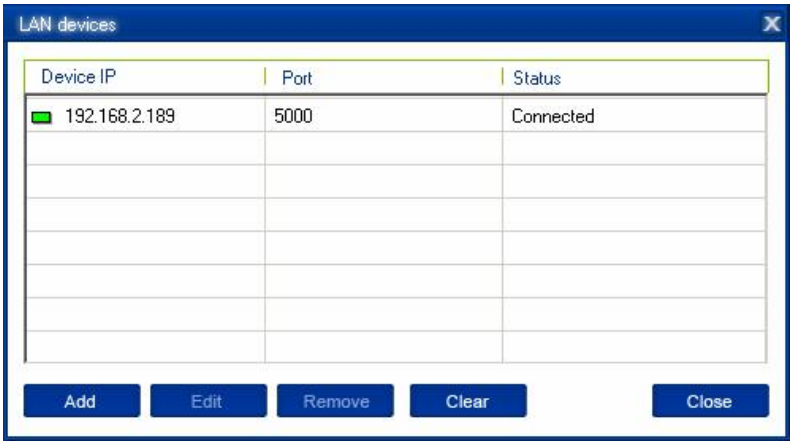
Figure #17



- To edit the LAN device, select it and click the *Edit* button, or just double click on the LAN device
- To remove the LAN device, select it and click the *Remove* button. You can select multiple LAN devices using *Ctrl* and *Shift* keys. You can also remove all LAN devices by clicking the *Clear* button

HINT: Use the popup menu which can be activated by the right mouse button click over the table.

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If the status of EG-PMS-LAN shows the device not to be *Connected* - it could be due to the following reasons:

- Incorrect IP/Port/Password specified in the *Add LAN device* window
- PC is not connected to the local network
- You are trying to access EG-PMS-LAN from the PC which is not allowed to do so. Change PC IP address or change *IP filter* list in EG-PMS-LAN hardware settings (see section 4.5 above)
- EG-PMS-LAN is not connected to local network. To check if EG-PMS-LAN is on your local network you can do so-called ping test:
    - Go to *Start->Run*
    - Type *cmd*
    - Type *ping <EG-PMS-LAN IP Address specified in utility>* in the window which would appear

Suppose EG-PMS–LAN with IP address 192.168.2.189 is connected to the local network. Then the *cmd* window will look as shown on the Figure #18 below:

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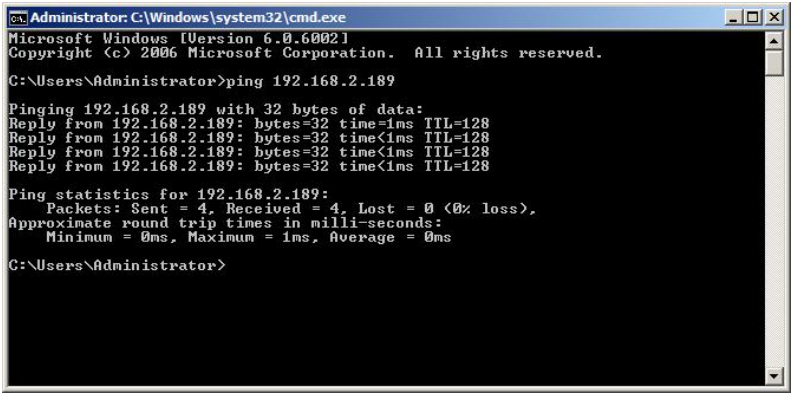
Figure #18


Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6002]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>ping 192.168.2.189
Pinging 192.168.2.189 with 32 bytes of data:
Reply from 192.168.2.189: bytes=32 time=1ms TTL=128
Reply from 192.168.2.189: bytes=32 time<1ms TTL=128
Reply from 192.168.2.189: bytes=32 time<1ms TTL=128
Reply from 192.168.2.189: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.2.189:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\Users\Administrator>

- EG-PMS-LAN is connected to local network (ping test is ok) but not responding. Reset EG-PMS-LAN by pressing the *Reset button (A)* on the side control panel (see Figure #2 above) or switch it off and then on again (see Figure #1 above)

NOTE: The *Reset button A* (see Figure #2 above) can sometimes help if EG-PMS-LAN can't be accessed or works abnormally. The device will then be restarted. All the IP settings and device settings will remain the same as before, but the server time will be reset and all schedules will become outdated.

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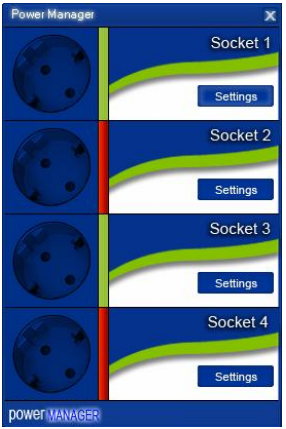
6.2. Managing EG-PMS-LAN

After successful connection, close *LAN devices* window. You can now start managing EG-PMS-LAN via the Power Manager interface. Double click on the socket icon in the system tray or select Open from the popup menu (see Figure #14 above). You will get the window of the main control panel shown on the Figure #19 below.

Figure #19



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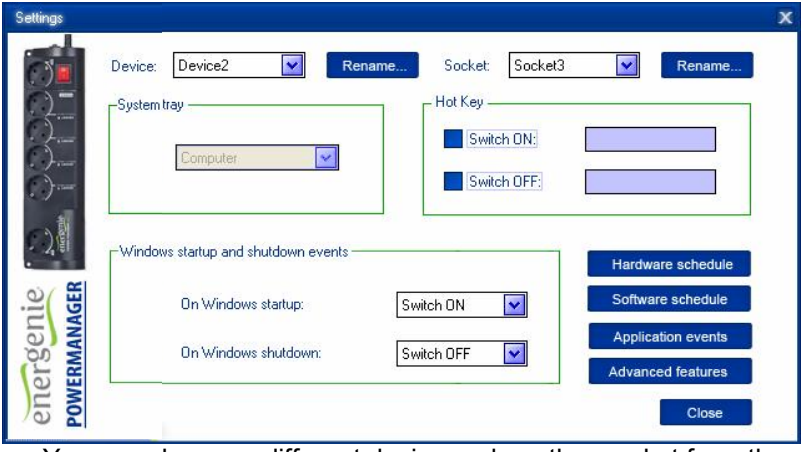
Sockets should switch on and off (green color means the socket is switched on; red color means the socket is switched off) when you double click on them. Click the *Settings button* for each socket to access the *Settings dialog box* (see Figure #20 below).

Figure #20



You can choose a different device and another socket from the *Device* and *Socket* drop down list-boxes.

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- It is possible to give a name to the device and socket (for example *Printer* or *Scanner*) using the *Rename* button
- Check the *System tray* checkbox if you want to put the icon of the socket into the system tray. You can choose the icon from drop down list box. Such icon is a fast way to switch the device connected to the socket on/off or check the device status
- You can also assign a hot key to switch the socket on/off. Check the *Switch ON* and *Switch OFF* checkboxes and specify the hot keys
- To switch the socket on/off on Windows startup (wake up), check the *On Windows startup* checkbox and choose the required action
- To switch the socket on/off on the Windows shutdown (sleep), check the *On Windows shutdown* checkbox and choose the required action

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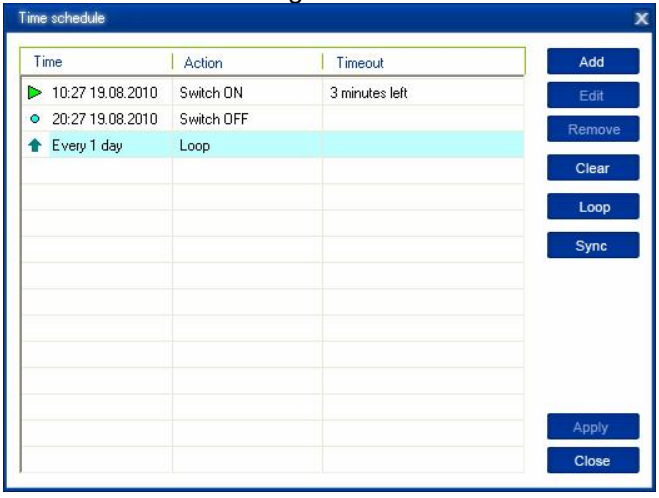
7. Power Manager core features

7.1. Setting up the hardware schedule

Using the *Hardware schedule* button available from the Settings window (see section 6.2 above) you can create the hardware timer schedule (see Figure #21 below). To add a new record, click the *Add* button.

Figure #21



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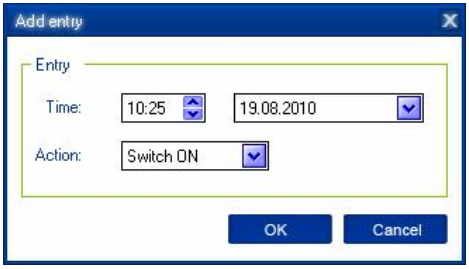
- The window *Add entry* will appear (see Figure #22 below). In the dialog box, specify the required time and the action

Figure #22



- To edit the record, select it and click the *Edit* button or just double click on the entry (see Figure #21 above). The window Edit entry will appear (see Figure #23 below)

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Figure #23

- To remove the record, select it and click the *Remove* button (see Figure #21 above). You can select multiple entries using *Ctrl* and *Shift* keys. You can also remove all entries from the schedule by clicking the *Clear* button (see Figure #21 above)
- To repeat your event (for example if you want to perform the same events every day) use the *Loop* button (see Figure #21 above) and specify the loop time period in the *Edit loop period* window (see Figure #24 below)

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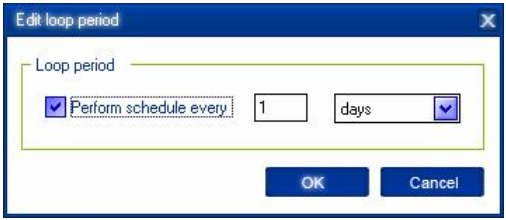
Figure #24



- After the schedule record has been created, click the *Apply* button (see Figure #21 above) to save the hardware timer schedule changes. In case of incorrect entries, these will be highlighted and an error message will appear. Click the *Apply* button again after correcting all the errors
- Use *Sync* button (see Figure #21 above) to synchronize device timer with PC clock. Note that after synchronization past entries will be removed from the schedule

HINT: Use the popup menu (see Figure #21 above) which can be activated by the right mouse button click over the table.

The following are the rules for creating a correct schedule:

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- The new event time should be in the future
- There can not be a duplicate entry
- The total quantity of events can not exceed 16 per socket
- The total quantity of events also depends on the total execution period of the schedule
- The interval between the present and the last entry can not exceed 180 days
- Without loop the total execution period of the schedule can not exceed 215 days
- Loop period can not exceed 180 days

NOTES: The hardware schedule keeps running even when the device is powered off. However it is recommended not to power off the device for extended periods, because the built-in battery has a limited lifespan. If the battery dies the schedule will be completely cleared. The total lifetime of the battery is no less than 2 years if the device is powered off, and no less than 5 years if the device is powered on.

If the hardware schedule has been set as set in the Power Manager software, it executes and is displayed according to computer's clock, not EG-PMS-LAN's clock. To avoid this mismatch, before setting the schedule in software, make sure, that time on computer matches the time on EG-PMS-LAN.

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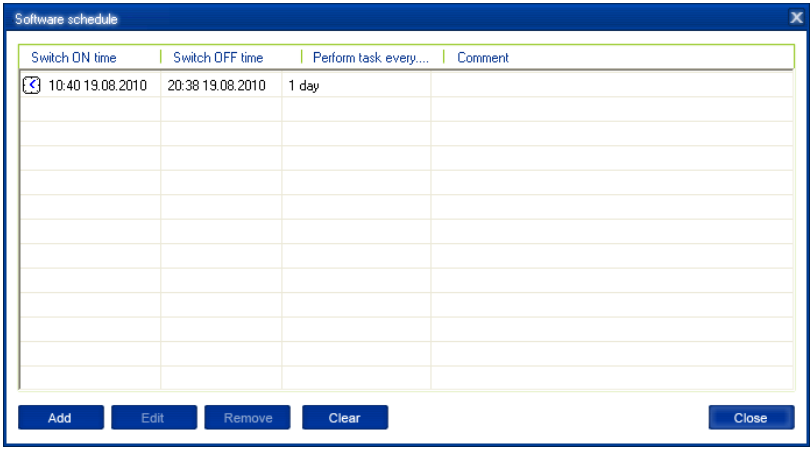
7.2. Setting up software schedule

Using the *Software schedule* button available from the Settings window (see section 6.2 above) you can create the software timer schedule (see Figure #25 below).

NOTE: the software timer schedule will only be executed if the managing computer is on and the Power Manager is launched.

Figure #25



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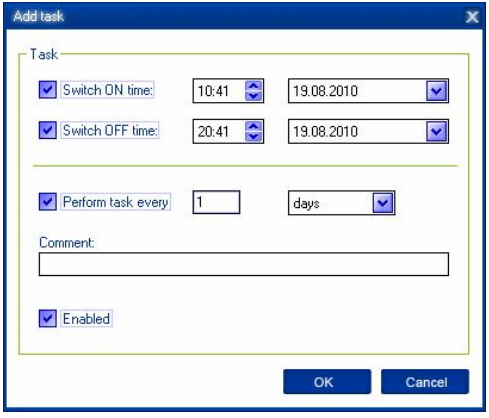
- To add a new task, click the *Add* button. The *Add task* window will appear (see Figure #26 below)

Figure #26



In the *Add task* window, check *Switch ON time* and/or *Switch OFF time* checkboxes and specify the time to switch the socked on and/or off. If you want the same event to be performed periodically, check *Perform task every* checkbox and specify the time interval. You can also add remarks about the task in the *Comment* field. To disable the task,

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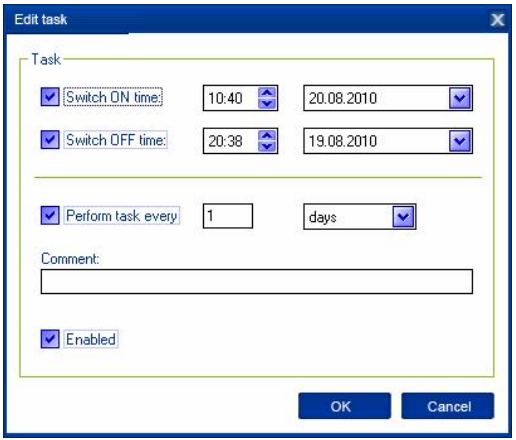
uncheck the *Enabled* checkbox and to enable the task again, re-check the checkbox.

- To edit the task, select it (see Figure #25 above) and click the *Edit* button or just double click on the task. The *Edit task* window will appear (see Figure #27 below)

Figure #27



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- To remove the task select it and click the *Remove* button (see Figure #25 above). You may select multiple tasks using *Ctrl* and *Shift* keys. You can also remove all tasks by clicking the *Clear* button

HINT: Use the popup menu which can be activated by the right mouse button click over the table (see Figure #25 above).

7.3. Setting up application events

Using the *Application events* window you can specify the socket events when a certain application is launched or closed down. You can also associate switching the sockets off or on with placement and removal of particular files in certain folders.

To use this feature push *Application events* button available from the Settings window (see section 6.2 above – Figure #20). You will get the following window (see Figure #28 below).

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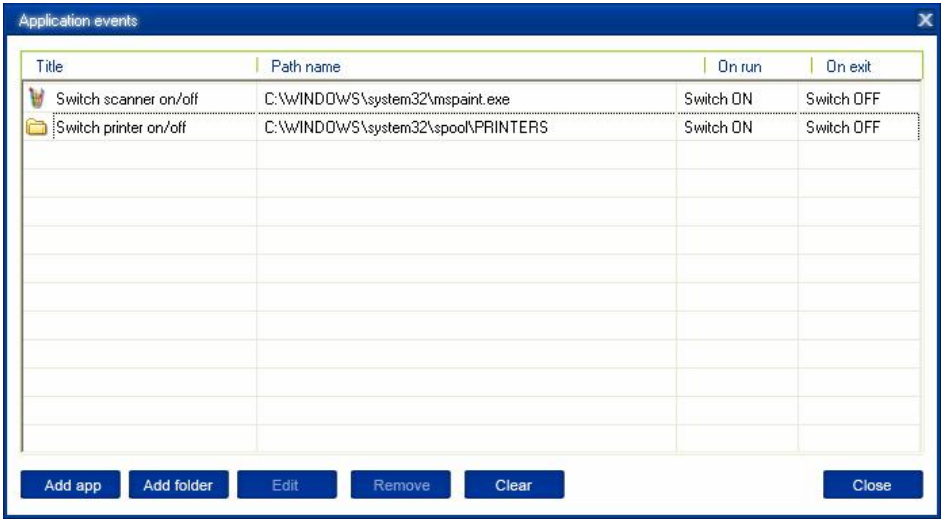
Figure #28



- To add a new program event, click the *Add app* button. The *Add program event* dialog will appear (see Figure #29 below)

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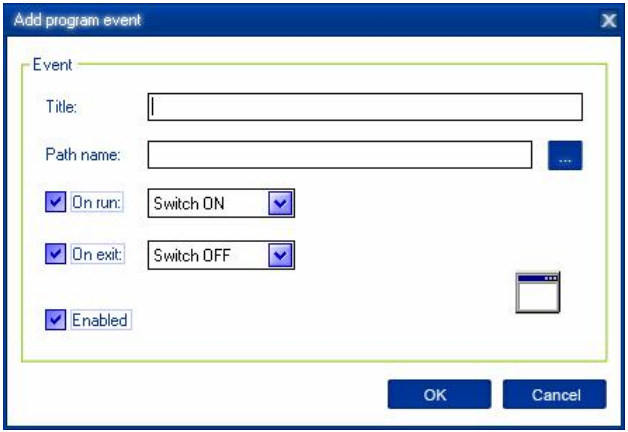
Figure #29



Specify the application title and path to it using the *Browse (…)* button or typing it manually in the *Title* and *Path name* fields. If you use the *Browse (…)* button you can also select a shortcut to the application. In this case the application title and path name will be taken automatically via the shortcut if possible. After you have specified the application, check *On run* and/or *On exit* and choose the event (switch on or off).

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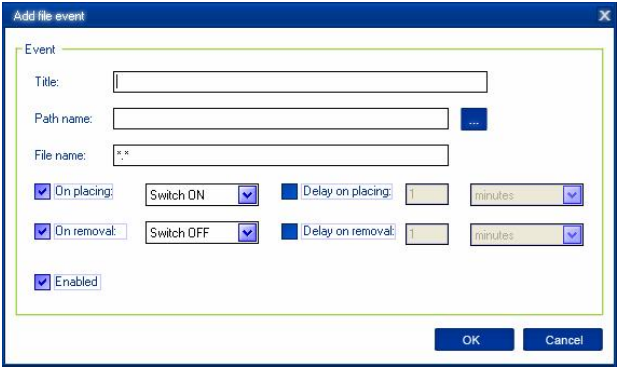
NOTE: The *On run* event will take place when the first window of the selected application is opened. The *On exit* event will take place when the last window of the application is closed.

HINT: Your device is an advanced standby-killer. Using this feature you can for example switch your scanner on/off whenever Photoshop is started/closed.

- To add a new file event, click the *Add folder* button (see Figure #28 above). The *Add file event* window will appear (see Figure #30 below)

Figure #30



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Specify the path to the folder you would like to monitor using the *Browse (…)* button or typing it manually in the *Path name* field. Specify the *File name* mask using wildcard characters: *, ?. Check then *On placing* and/or *On removal* checkboxes and select the event and delay.

NOTE: The *On placing* event will take place when the first file matching the specified file name mask is placed into the specified folder. The *On removal* event will take place when the last file matching the specified file name mask is removed from the specified folder.

HINT: Your device is an advanced standby-killer. Use the *Add folder* button to assign *c:\\system32\spool\printers* folder to switch your printer on whenever you start printing and to switch it off again whenever you are ready with printing.

HINT: If you have several printers connected to the same computer, we suggest moving default spool directory of each printer to a separate location.

- To edit the event, select it and click the *Edit* button, or just double click on the event (see Figure #28 above). The *Edit file event* window will appear (see Figure #31 below)

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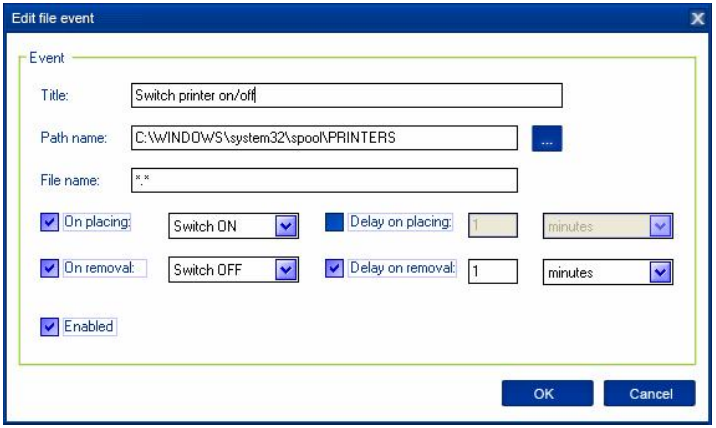
Figure #31



- To remove the event, select it and click the *Remove* button (see Figure #28 above). You can select multiple events using *Ctrl* and *Shift* keys. You can also remove all events by clicking the *Clear* button

HINT: Use the popup menu which can be activated by the right mouse button click over the table.

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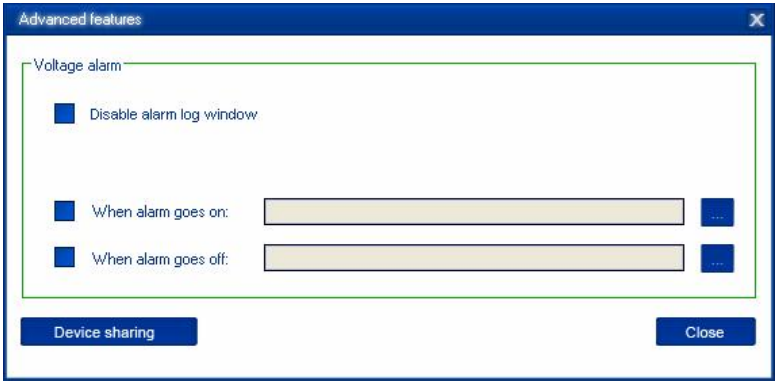
8. Power Manager advanced features

The following information is for advanced users which wish to have full access to the advanced features of EG-PMS-LAN. Click the *Advanced features* button available from the Settings window (see section 6.2 above). The following window will then appear (see Figure #32 below).

Figure #32



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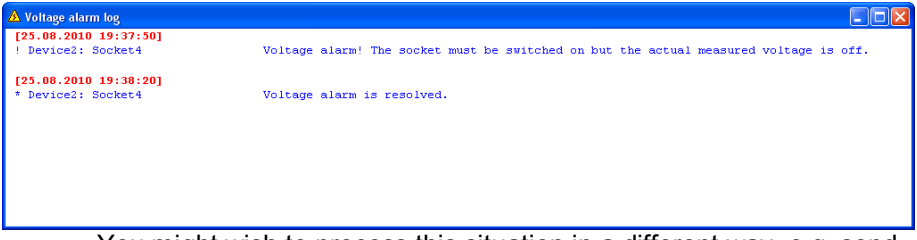
8.1. Processing the alarms

Whenever the actual measured voltage on the manageable socket deviates from the status set by your switching tasks, it is called a *Voltage alarm*.

The *Voltage alarm* can for example be caused by a blackout and will be resolved after power returns. The *Voltage alarm* can also be triggered if for any reason a switching task could not be carried out (switching malfunction).

The default action by an alarm is to record this event into a log file and show a popup *Alarm log* window (see Figure #33 below).

Figure #33


Voltage alarm log
[25.08.2010 19:37:50]
! Device2: Socket4
Voltage alarm! The socket must be switched on but the actual measured voltage is off.
[25.08.2010 19:38:20]
* Device2: Socket4
Voltage alarm is resolved.

You might wish to process this situation in a different way, e.g. send an email message somewhere etc.

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- Check the *Disable alarm log window* checkbox to disable the popup *Alarm log* window (applies to all devices)
- Check the *When alarm goes on* checkbox, then click the *Browse(…)* button to select the desired program to be launched whenever a voltage alarm is triggered
- Check the *When alarm goes off* checkbox, then click the *Browse(…)* button to select the desired program to be launched after the alarm status (see above) is resolved

8.2. Setting up network devices

You don't need to let every user in your local network have direct access to EG-PMS-LAN via IP address. Instead you can declare EG-PMS-LAN as a shared device on your server and let the other users access it via the server.

To make EG-PMS-LAN shared on your server press the button *Device sharing*... in the *Settings* window (see Figure #20 above). The window *Device sharing* will appear (see Figure #34 below)

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Figure #34

Set the checkbox *Share this device via network* if you want to enable the network access to the device (via this PC). To prevent unauthorized access to the device enter the access password in the field *Password*. **NOTE:** The port 6100 should be open. Contact your LAN administrator for further details.

To be able to use this shared EG-PMS-LAN on a client PC choose *Shared devices* from the *Main menu* (see Figure #14 above). You will get the following window (see Figure #35 below).

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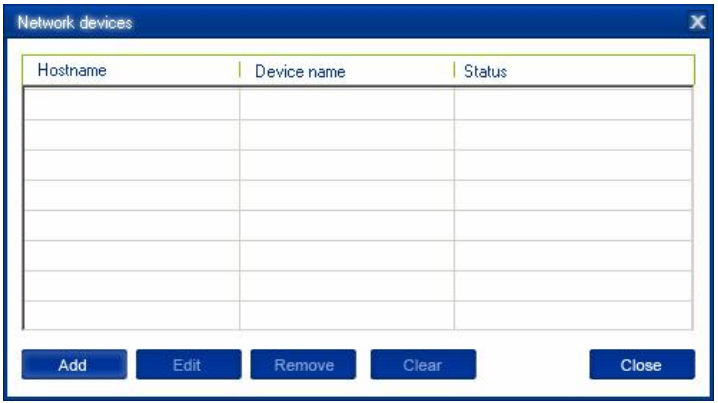
Figure #35



To add a new remote device, press the *Add* button. You will see the window *Add network device* (see Figure #36 below).

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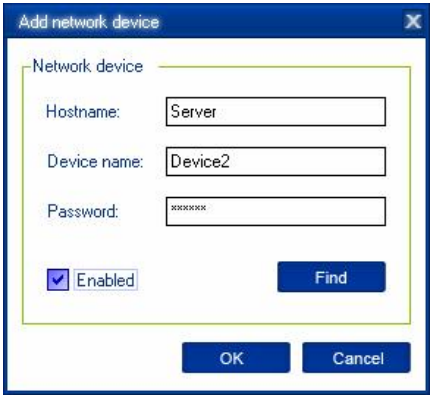
Figure #36



Enter the network name of the server which is connected to EG-PMS-LAN in the field *Hostname*. Enter the name of the target EG-PMS-LAN in the field *Device name*. Enter access password in the field *Password*. To disconnect from the device uncheck the option *Enable*, set this option on again to regain the access. To locate the shared device in your local network, click the button *Find*. A dialog box *Find network*

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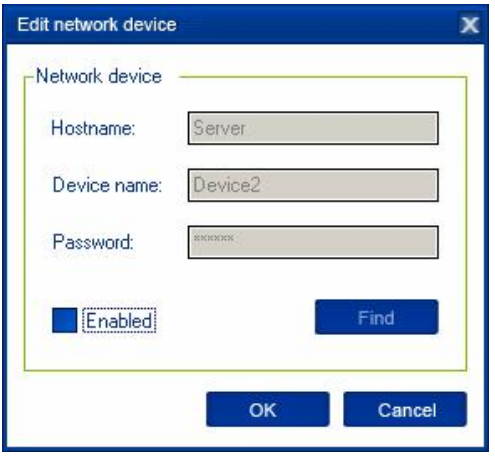
device will appear. Choose the proper server and then the device and click *OK* button.

To edit the network device, select it and click the *Edit* button, or just double click on the network device (see Figure #35 above). *The Edit network device* window will appear (see Figure #37 below).

Figure #37



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- To remove the network device, select it and click the *Remove* button (see Figure #35 above). You can select multiple network devices using *Ctrl* and *Shift* keys. You can also remove all network devices by clicking the *Clear* button

HINT: Use the popup menu which is available with the right mouse button click over the table.

8.3. Managing EG-PMS-LAN via your own software

To let you switch the sockets from your own applications the following command line interface syntax is supported:

- pm.exe -[on | off] -device name -socket name

Examples:

- "C:\Program Files\ Energenie\Power Manager\pm.exe" -on -My EnerGenie -Socket1
- "E:\Utils\PM3\pm.exe" -off -My EnerGenie -Table lamp

- Execute pm.exe with -info key (*pm.exe –info*) to get the complete information about the status of the current devices.

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For each of the connected devices the following information will then be provided and placed into *Info.ini* file in the *Power Manager* folder:

- DeviceName - the user specified device name
- Socket#name, where # is replaced by a certain socket number - the user specified socket name
- Socket#SwitchState, where # is replaced by a certain socket number - TRUE, when the socket is switched on, FALSE, when the socket is switched off
- Socket#VoltageState, where # is replaced by a certain socket number - TRUE, when voltage presence on the socket is detected, FALSE, when there is no voltage on the socket;
  Example:

NOTE: Each use of this command line option totally overrides the data in Info.ini file.

NOTE: *Power Manager* should be active.

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9. Troubleshooting

Problem	Solution
The circuit breaker is activated (tripped).	The load connected to the device is too high, some of the devices connected to the EG-PMS-LAN should be disconnected and the circuit breaker should be reset.
The switching command is not carried out, the rocker switch and indicators are not lit.	There is no power supply to the EG-PMS-LAN. Please, make sure the EG-PMS-LAN is connected to the power supply and the rocker switch is switched on.
The status of EG-PMS-LAN in Power Manager does not become *Connected*	Try to ping the device (see section 6.1 above)
EG-PMS-LAN is connected to local network (ping test is ok) but not responding.	Reset EG-PMS-LAN by pressing the *Reset button* on the side control panel (see Figure #2 above) or switch it off and then on again using the *Main rocker switch Z* (see Figure #1 above).
Connection to EG-PMS-LAN is lost. It seems something is wrong with its IP address.	Make sure EG-PMS-LAN is connected to LAN and switched on. Launch *Find EG-PMS-LAN* utility. You can also try to use *IP config (C)* button to let the device renew its IP address (see section 3.2 above)

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EC Declaration of Conformity

We hereby certify that the following product complies with all the relevant
Safety Requirements of § 4 EMVG and of the Directives 2006/95/EC; 93/68/EEC and 2004/108/EC.

Applicant :	**Gembird Europe BV** **Wittevrouwen 56,** **1358CD, Almere, The Netherlands**
Equipment :	**Computer parts**
Model Nos. :	**EG-PMS-LAN**
Product description :	**EG-PMS-LAN Programmable power outlet strip with LAN interface**

European standards:

EN55022:2006; EN55024:1998+A1:2001+A2:2003; EN61000-3-2:2000+A2:2005; EN61000-3-3:1995+A1:2001+A2:2005;

The following manufacturer/WITHIN Europe is responsible for this declaration:

Gembird Europe BV
Wittevrouwen 56, 1358CD, Almere, The Netherlands
Tel: +31-(0)36-5211588. Fax: +31-(0)36-5347835

Director

The Netherlands / Nov. 25, 2010
Place and Date

Authorized signature

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Waste disposal: Do not deposit this equipment with the household waste. Improper disposal can harm both the environment and human health. For Information about waste collection facilities for used electrical and electronic devices, please contact your city council or an authorized company for the disposal of electrical and electronic equipment.	**Entsorgungshinweise:** Werfen Sie dieses Gerät nicht in den Hausmüll. Unsachgemäße Entsorgung kann sowohl der Umwelt als auch der menschlichen Gesundheit schaden. Informationen zu Sammelstellen für Altgeräte erhalten Sie bei Ihrer Stadtverwaltung oder einer autorisierten Stelle für die Entsorgung von Elektro-und Elektronikgeräten.
Richtlijnen m.b.t. afvalverwerking Batterijen en accu's dienen als kleinchemisch afval afgeleverd te worden bij toegewezen afvalverzamelpunten (zie www.afvalgids.nl). U dient ervoor te zorgen dat de batterijen/accu's leeg zijn en dus geen stroom meer kunnen leveren. Let op, de batterijen/accu's dienen onbeschadigd ingeleverd te worden. Gooi dit product niet weg in uw vuilnisbak. Dit kan zowel het milieu als de menselijke gezondheid schade toebrengen. Informatie over het inleveren van dit product kunt u inwinnen bij uw gemeentelijke vuilnisdienst of andere geautoriseerde instelling in uw buurt.	**Traitement des déchets:** Ne jetez pas cet appareil dans les déchets domestiques. Un traitement inapproprié peut être dommageable à l'environnement et à la santé humain. Vous trouvez des informations sur les centres de rassemblement des appareils vieux chez l'administration municipale ou chez un centre autorisé pour le traitement des appareils électriques ou électroniques.

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WARRANTY CONDITIONS	GARANTIE BEDINGUNGEN
The warranty period is 36 months and begins with the sale to the end user. The receipt must clearly list the date of purchase and the part number, in addition it should be printed. Keep the receipt for the entire warranty period since it is required for all warranty claims. During the warranty period the defective items will be credited, repaired or replaced at the manufacturer's expense. Work carried out under the warranty neither extends the warranty period nor starts a new warranty period. The manufacturer reserves the right to void any warranty claim for damages or defects due to misuse, abuse or external impact (falling down, impact, ingress of water, dust, contamination or break). Wearing parts (e.g. rechargeable batteries) are excluded from the warranty. Upon receipt of the RMA goods, Gembird Europe B.V. reserves the right to choose between replacement of defective goods or issuing a credit note. The credit note amount will always be calculated on the basis of the current market value of the defective products	Die Garantie beträgt 36 Monate ab Verkaufsdatum an den Endverbraucher. Das Kaufdatum und der Gerätetyp sind durch eine maschinell erstellte Kaufquittung zu belegen. Bitte bewahren Sie Ihren Kaufbeleg daher für die Dauer der Garantie auf, da er Voraussetzung für eine eventuelle Reklamation ist. Innerhalb der Garantiezeit werden alle Mängel, wahlweise durch den Hersteller entweder durch Instandsetzung, Austausch mangelhafter Teile oder im Austausch, behoben. Die Ausführung der Garantieleistung bewirkt weder eine Verlängerung noch einen Neubeginn der Garantiezeit. Eine Garantieleistung entfällt für Schäden oder Mängel die durch unsachgemäße Handhabung oder durch äußere Einwirkung (Sturz, Schlag, Wasser, Staub, Verschmutzung oder Bruch) herbeigeführt wurden. Verschleißteile (z.B. Akkus) sind von der Garantie ausgenommen.
Gembird Europe B.V. Wittevrouwen 56, 1358CD Almere The Netherlands www.gembird.nl/support support@gembird.nl Tel. +31-36-5211588 (0900-4362473 inside The Netherlands, € 0,15 p/m, mobile costs not included)	Gembird Deutschland GmbH Overweg 27, 59494 Soest Deutschland www.gembird.de/support support@gembird.de Tel. +49-180 5-436247 0,14 € pro Minute aus dem deutschen Festnetz. Mobilfunkpreise können abweichen

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GARANTIE VOORWAARDEN	CONDITIONS DE GARANTIE
De garantietermijn bedraagt 36 maanden en gaat in op de aankoopdatum van het product door de eindgebruiker. Op de aankoopbon moeten de aankoopdatum en productomschrijving duidelijk vermeld staan. Gelieve de aankoopbon de gehele garantieperiode te bewaren, deze is ten alle tijden benodigd voor alle garantie aanspraken. Tijdens de garantieperiode zullen alle gebreken verholpen of vervangen worden door de fabrikant d.m.v. reparatie, omruiling van het defecte onderdeel of het gehele apparaat. Aanspraken tijdens de garantieperiode leiden niet tot verlenging hiervan. Garantieaanspraak vervalt bij schade of gebreken die ontstaan zijn door oneigenlijk gebruik, misbruik of invloeden van buitenaf (vallen, stoten, water, stof, vuil of breken). Slijtagegevoelige onderdelen (b.v. batterijen) zijn uitgesloten van garantie. Bij ontvangst van de RMA goederen behoudt Gembird zich het recht om te kiezen tussen vervanging van de defecte waren of het uitgeven van een kreditnota. Het bedrag van de kreditnota zal altijd gecalculeerd zijn op basis van de huidige marktprijs voor het defecte produkt.	Garantie est de 36 mois a partir de la date d'achat de l'utilisateur final. Le talon de garantie doit énumérer clairement la date d'achat et le type d'appareil. Conservez le reçu d'achat pendant toute la durée de la garantie car elle est nécessaire pour toute réclamation. Au cours de la période de garantie tous les défauts doivent être remplacé aux frais du fabricant, soit par la réparation ou la remplacement de la pièce défectueuse ou l'ensemble du produit. Les travaux effectués sous garantie ne prolongent pas la période de garantie ni ne commencent pas une nouvelle période de garantie. Le fabricant se réserve le droit d'annuler toute demande de garantie pour les dommages ou défauts dus à une mauvaise utilisation, abus ou les effets externes (chute, choc, pénétration de l'eau, la poussière, etc..). Les pièces d'usure (par exemple les piles rechargeables) sont exclus de la garantie. Dès réception de la marchandise sous garantie, le SAV de Gembird Europe BV se réserve le droit de choisir entre le remplacement des produits défectueux ou de délivrer un avoir. Le montant d'avoir sera toujours calculée sur la base de la valeur actuelle du marché des produits défectueux.
Gembird Europe B.V. Wittevrouwen 56, 1358CD Almere The Netherlands www.gembird.nl/support support@gembird.nl Tel. 0900-4362473 € 0,15 p/m binnen Nederland Exclusief mobiele telefoonkosten	Gembird Europe B.V. Wittevrouwen 56 1358CD Almere, The Netherlands www.gembird.nl/support support@gembird.nl Tel. +31 (36) 5211588 Prix d'appel depuis telephone fixe Pays-Bas : 0.15 euro / min Prix d'appel depuis telephone mobile / autre pays - selon operateur

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• использование изделия не по назначению.
• нарушение условий эксплуатации, хранения или перевозки изделия, которые указаны в настоящей инструкции.
• подключение нестандартных или неисправных периферийных устройств, аксессуаров.
• механические повреждения, попадание внутрь изделия посторонних предметов, веществ, жидкостей, насекомых.
• ремонт изделия не уполномоченными на то лицами.
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Послепродажные претензии по укомплектованности и внешнему виду не принимаются.

Наименование изделия: _____

Модель _____

Серийный номер _____

Срок гарантии _____

Дата продажи «____» _____ 20____ года

Фирма-продавец: _____
Адрес и телефон фирмы-продавца:
_____
М.П. С условиями гарантии ознакомлен и согласен:

Продавец: _____ Покупатель: _____

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- пошкодження викликані стихійним лихом або нещасним випадком, включаючи й блискавку, потраплянням у виріб сторонніх предметів, рідин, комах, тощо;
- пошкодження викликані застосуванням або підключенням нестандартних або несправних периферійних пристроїв, аксесуарів;
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З гарантійними умовами згоден.

Підпис покупця: _____

ГАРАНТІЙНИЙ ТАЛОН № _____

Товар/модель _____

Серійний номер _____

Термін гарантії _____

Дата продажу _____

Продавець (назва, телефон)

_____

Печатка та підпис продавця

_____

З гарантійних питань звертайтесь до сервісних центрів Gembird. Про адреси та контакти Ви можете дізнатись на сайті www.gembird.ua або по телефону 044-4510213.

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